



Figure 1. Photomicrograph of A showing mild to moderate increased intra-epithelial lymphocytes with thickened basement membrane B. shows the thickened basement membrane highlighted better in Masson's trichrome staining

Conclusions: Subclinical gut inflammation was significantly higher in PsA patients in comparison to PsO patients and is more prevalent among those with axial phenotype.

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SAT0303

PAIN MECHANISMS AND ULTRASONIC INFLAMMATORY ACTIVITY AS PROGNOSTIC FACTORS IN PATIENTS WITH PSORIATIC ARTHRITIS: RESULTS OF A DANISH PROSPECTIVE, EXPLORATORY COHORT STUDY

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Background: Pain is a major concern for patients with psoriatic arthritis (PsA) in spite of treatment with biologic/conventional disease modifying drugs (b/cDMARDs). Studies on the prognostic role of pain mechanisms in PsA, are scarce.

Objectives: To investigate the presence of widespread non-arthritic pain (WP) in patients with PsA, and determine its relation to patient-reported, clinical- and ultrasound (US) disease measures, as well as to achievement of 4 months response to b/cDMARD therapy. Secondly, to study if US Colour Doppler activity (CD) at baseline is associated to treatment response.

Methods: A prospective cohort study was performed following a protocol.¹ Patients initiating b/cDMARDs for PsA were recruited from rheumatology clinics in Copenhagen. Clinical- and US examinations and patient-reported outcomes (PROs) were performed at baseline and after 4 months. WP was defined as a Widespread Pain Index ≥ 4 , and pain in $\geq 4/5$ regions. CD activity in selected joints, entheses and tendons (73 projections) was summed. Response was assessed by American College of Rheumatology 20% (ACR20), Disease Activity in Psoriatic Arthritis 50% (DAPSA 50) and Minimal Disease Activity (MDA). Main response analyses were based on intention to treat with non-responder imputation, and consisted of logistic regressions adjusting for gender and age.

Results: Of 123 screened patients, 69 were included. Of these, 24 (35%) fulfilled the WP definition. At baseline (Table), WP was associated with worse PROs and composite scores, while CD activity and clinical measures were similar to those without WP. WP profile was significantly related to achievement of MDA at follow-up but not to other response criteria (table 1). Presence of CD activity at baseline was not significantly associated to 4 months response by any criteria, e.g. 19%/31% with CD=0/CD >0, reached ACR20, (p=0.262).

Abstract SAT0303 – Table 1. Baseline characteristics

Females, n (%)	15 (63)	24 (53)	0.634
PsA impact of Disease (PsAID)	6.2 (1.7)	4.2 (2.2)	<0.001
HAQ-DI (0–3)	1.2 [0.9 to 1.5]	0.6 [0.3 to 1.0]	<0.001
VAS Pain (0–100)	68.8 (19.2)	44.5 (27.6)	<0.001
DAPSA (0–164)	49.3 (18.1)	29.8 (18.5)	<0.001
SPARCC enthesitis (0–16)	7.5 (3.4)	4.2 (3.0)	<0.001
CD score (0–200)	1.0 [0.0 to 4.3]	1.0 [0.0 to 5.0]	0.686
Swollen Joints (0–66)	3.0 [1.0 to 6.3]	4.0 [2.0 to 8.0]	0.352
Tender Joints (0–68)	26.5 [24.5 to 37.0]	11.0 [6.0 to 20.0]	<0.001
4 months responses			
ACR20, n (%)	6 (25)	12 (28)	0.779
DAPSA 50, n (%)	7 (29)	15 (33)	0.724
MDA, n (%)	0 (0)	9 (20)	0.022

Data as mean(SD) or median[IQR] P-value from T test/Mann Whitney U-test/ χ^2 test,

Conclusions: WP was present in 1/3 of patients, and associated with worse PROs, composite measures, and failure to achieve MDA at follow-up. Neither WP nor CD at baseline was related to other response measures.

REFERENCE

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SAT0304

PRECLINICAL PHASES OF PSORIATIC ARTHRITIS: A CROSS-SECTIONAL ULTRASONOGRAPHIC STUDY ON PSORIASIS AND PSORIATIC ARTHRALGIA PATIENTS

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Background: Identify the preclinical phase of arthritis could be clinically relevant. In this scenario, musculoskeletal ultrasonography (US) may play an important role, since it may detect subclinical disease. Psoriatic Arthritis (PsA) is a perfect disease to identify risk factors, since the risk pool group [i.e. patients with only cutaneous Psoriasis (Pso)] is known.

Objectives: To evaluate in Pso patients, with and without clinical arthralgia (CA), defined by the presence of joint pain without other clinical evidence of musculoskeletal inflammation: I) the prevalence of subclinical US inflammation in joints, entheses, tendons and bursae; II) the prevalence of US structural damage; III) the relationship between US lesions and clinical data.

Methods: Cross-sectional prevalence study of US abnormalities in Pso patients with or without CA and healthy controls (HCs). Inclusion and exclusion criteria (e.g. osteoarthritis and fibromyalgia) are pre-defined. Forty-four joints (MCP, PIP and DIP joints, wrists, knees, MTP joints) and 12 entheses (achilles, quadriceps, proximal and distal patellar, plantar aponeurosis and common extensor tendon entheses) were scanned in each patient. US scans were performed using a ESAOTE MyLabClassC equipped with a high frequency linear probe. Active synovitis was defined by the presence of a grade ≥ 2 for grey scale (GS) and ≥ 1 for PD, while active enthesitis if there was hypoechogenicity in GS and an enthesal PD signal (≤ 2 mm from bone insertion).

Results: Sixty-four Pso patients and 21 HCs were included; globally 2816 joints and 768 entheses were scanned. Twenty-three out of 64 (35.9%) Pso patients displayed CA. Baseline characteristics are reported in table 1. Active synovitis was found, in at least one joint, in 20/64 (31.3%) Pso patients and 0/21 HCs (p=0.002), while active enthesitis in 14/64 (21.9%) Pso patients and 0/21 HCs (p=0.017). No significant differences were found for active synovitis or enthesitis between the two subgroups of Pso, with or without CA. In the Pso cohort, 5/23 (23.8%) patients with CA and 2/41 (5%) without CA displayed tenosynovitis or paratenonitis (p=0.042). Furthermore, active synovitis, as well as GS-synovitis ≥ 2 , was associated with higher NAPSI (9.7 \pm 8.0 vs 4.6 \pm 7.1, p=0.04 for GS ≥ 2),